Contents

No. 1 (February 1983)

1 Cellulolytic bacteria in buffalo rumen
R. N. SINHA & B. RANGANATHAN

7 The occurrence and properties of *Gemmiger formicilis* and related anaerobic budding bacteria in the avian caecum
SUSAN C. CROUCHER & ELLA M. BARNES

23 Effect of inoculation sequence and nutrients upon *Streptococcus mutans* BTH and *Streptococcus mitior* LPA-1 growing on human teeth in an artificial mouth
HELEN D. DONOGHUE, D. E. HUDSON & C. J. PERRONS

31 Analysis of bacterial menaquinone mixtures by high performance liquid chromatography
J. TAMAOKO, Y. KATAYAMA-FUJIMURA & H. KURAISHI

37 Physiological and pathological characteristics of *Erwinia chrysanthemi* isolates from potato tubers
E. J. COTHER & VIVIENNE POWELL

45 The microbial flora of smoked pork loin and frankfurter sausage stored in different gas gas atmospheres at 4°C
E. BLICKSTAD & G. MOLIN

57 The use of solid medium to study effects of cadmium, copper and zinc on yeasts and yeast-like fungi: applicability and limitations
G. M. GADD

63 Effect of fatty acid supplementation on the lipid composition of *Mycobacterium smegmatis* ATCC 607, grown at 27° and 37°C
G. K. KHULLER, R. TANEJA & N. NATH

69 The Rappaport-Vassiliadis (RV) enrichment medium for the isolation of salmonellas: An overview
P. VASSILIADIS

77 Incidence of antibiotic-resistant *Escherischia coli* in milk produced in the west of Scotland
D. W. JOHNSTON, J. BRUCE & J. HILL

85 Fatty acid and lipid compositions of *Conidiobolus*
YOSHIRO MIURA, TATSUO NAGAI & IKUO ISHIYAMA

91 Death, injury and revival of chemically treated *Bacillus subtilis* spores
S. P. GORMAN, E. P. HUTCHINSON, E. M. SCOTT & L. M. MCDERMOTT

101 A microcomputor-based information storage and retrieval system for the maintenance of records for a culture collection
T. N. BRYANT

109 An improved medium for the detection of *Aspergillus flavus* and *A. parasiticus*
J. PITT, AILSA D. HOCKING & DIANE R. GLENN

125 Development of a blood-free *Campylobacter* medium: screening tests on basal media and supplements, and the ability of selected supplements to facilitate aerotolerance
F. J. BOLTON & D. COATES

127 A note on bile tolerance in *Streptococcus agalactiae*
G. H. G. DAVIES & A. V. PHAM

131 A note on the microbial spoilage of undercooked chub-packed luncheon meat
R. G. BELL & KAREN M. DE LACY

135 A note on the antibiotic susceptibilities of *Clostridium perfringens* serotypes isolated from meat
J. L. SMART, M. L. TRUMAN & M. F. STRINGER

141 A note on the preparation and use for a selective medium for the isolation of *Acinetobacter* spp. from clinical sources
J. HOLTON

143 A note on a single tube technique for the Hugh and Leifson's oxidation—fermentation test
J. BRUCE, G. M. DAVEY & E. M. DRYSDALE

145 Book reviews

No. 2 (April 1983)

163 Factors affecting lipase production in *Syncephalastrum racemosum*
A. K. CHOPRA & HARISH CHANDER

171 Differentiation of *Salmonella typhi* using resistotyping
P. C. SOMERVILLE, W. M. NHLAPO & M. ALBERTS

177 Collaborative trial of the direct epifluorescent filter technique (DEFT), a rapid method for counting bacteria in milk
G. L. PETTIPHER, ROSEMARY J. FULFORD & L. A. MABBITT

183 Characterization of commercial yeast strains by flow microcalorimetry
B. F. PERRY, A. E. BEEZER & R. J. MILES

191 Inhibition of heterotrophic and autotrophic nitrification in bacterial cultures by carbaryl and 1-naphthol
C. RAMAKRISHNA & N. SETHUNATHAN

197 Mechanism of chemical manipulation of the heat resistance of *Clostridium perfringens* spores
YOSHIAKI ANDO & TOSHIBUMI TSUZUKI

203 The vitamin requirements of *Staphylococcus cohnii*
J. H. COVE, J. N. KEARNEY, K. T. HOLLAND & W. J. CUNLIFFE

209 Dynamics of salmonella isolation with modified Rappaport's medium (R10)
M. VAN SCHOTHORST & A. M. RENAUD

217 The effect of substrate shock on populations of starving aquatic bacteria
VĚRA STRAŠKRABOVÁ

225 Plasmids encoding trimethoprim resistance in bacterial isolates from man and pigs
B. J. MEE & SUZANNE M. NIKOLETTI

237 The effect of parabens on DNA, RNA and protein synthesis in *Escherichia coli* and *Bacillus subtilis*
INGOLF F. NESS & TRYGVE EKLUND

243 Neutralization of the activity of eight disinfectants by organic matter
P. GÉLINAS & J. GOULET

249 The effect of variation of thermal processing on the microbial spoilage of chub-packed luncheon meat
R. G. BELL

257 Enterotoxin production by atypical *Staphylococcus aureus* from poultry
J. B. EVANS, G. A. ANANABA, C. A. PATE & M. S. BERGDOLL

263 Studies of the extracellular proteolytic activity produced by *Propionibacterium acnes*
EILEEN INGHAM, K. T. HOLLAND, G. GOWLAND & W. J. CUNLIFFE

273 Selective method for the isolation of *Sporolactobacillus* from food and environmental sources
STEPHANIE DOORES & D. C. WESTHOFF

281 Isolation and characterization of a *Lactobacillus plantarum* bacteriophage isolated from a meat starter culture
KAREN E. TREVORS, R. A. HOLLEY & A. G. KEMPTON

289 Purification and characterization of a new proteolytic enzyme produced by *Aeromonas salmonicida*
S. MELLERGAARD

295 Effect of eight growth media upon fermentation profiles of ten anaerobic bacteria
L. J. TURTON, D. B. DRUCKER, V. F. HILLIER & L. A. GANGULI

305 A note upon the isolation and enumeration of bacteria which deposit and reduce ferric iron
J. G. JONES

311 A note on a method to aid sampling populations for characteristics
P. A. BARROW

No. 3 (June 1983)

313 Quality assurance of selective culture media for bacteria, moulds and yeasts: an attempt at standardization at the international level
D. A. A. MOSSEL, TREES M. G. BONANTS-VAN LAARHOVEN, ANNIEK M. TH. LIGTENBERG-MERKUS & MARIA E. B. WERDLER

329 Rapid method for selecting appropriate solid media for the enumeration of aerobic micro-organisms
J. RICHARD, HANNE MØLLER ANDERSEN & J. J. GRATADOUX
335 Identification of chemical constituents of tomato juice which affect the heat resistance of *Lactobacillus fermentum*
B. J. JUVEN, N. BEN-SHALOM & H. WEISSLOWICZ
339 Microbial growth at reduced water activities: studies of a_w prediction in solutions of compatible solutes
J. CHIRIFE, S. M. ALZAMORA & C. FERRO FONTAN
345 A study of the antibacterial activity of some polyhexamethylene biguanides towards *Escherichia coli* ATCC 8739
P. BROXTON, P. M. WOODCOCK & P. GILBERT
355 Bacterial uptake of algal extracellular products: an experimental approach
J. G. JONES, B. M. SIMON & C. R. CUNNINGHAM
367 Factors regulating the density of bacteria in process waters of a paper mill
P. VÄÄTÄNEN & S. I. NIEMELÄ
373 Phages naturally associated with the *aizawai* variety of insect pathogen *Bacillus thuringiensis* and their relevance to strain identification
D. R. JONES, V. KARUNAKARAN & H. D. BURGES
379 The effect of benzoyl peroxide on cutaneous micro-organisms *in vitro*
J. H. COVE & K. T. HOLLAND
383 The antimicrobial effect of dissociated and undissociated sorbic acid at different pH levels
TRYGVE EKLUND
391 Trimethylsilyl-sugar profiles of *Streptococcus milleri* and *Streptococcus mitis*
H. S. ALUYI & D. B. DRUCKER
399 Detection of chemotaxis in *Azospirillum brasilense*
RINA BARAK, I. NUR & Y. OKON
405 Uptake hydrogenase system in urd bean (*Vigna mungo*) *Rhizobium* in relation to nitrogen fixation
KAMLESH PAHWA & ROMESH CHANDER DOGRA
409 A selective and indicative medium for groups of *Penicillium viridicatum* producing different mycotoxins in cereals
J. C. FRISVAD
417 The bactericidal, fungicidal and sporicidal properties of hydrogen peroxide and peracetic acid
M. G. C. BALDRY
425 Selective media for three biovars of *Agrobacterium*
P. G. BRISBANE & A. KERR
433 A note on the micro-organisms associated with the fermentation of seeds of the African oil bean tree (*Pentaclethra macrophylla*)
J. A. N. OBETA
439 A note on the repair of the *Escherichia coli* nucleoid structure after heat shock
J. R. PELLON
443 Book reviews
445 Index to Authors
448 Index of Subjects